

<110> TAKARA SHUZO CO., LTD.

<110> National Cancer Center

<110> The Organization for Pharmaceutical Safety and Research

<120> Genomic DNA library

<130> 01-066US

<160> 69

&lt;170&gt; PatentIn Ver. 2.1

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<211> 22

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<223> Description of Artificial Sequence: a sequence for ER1 primer

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&lt;211&gt; 21

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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21

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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gagagtatga attctgtact t

21

<210> 4

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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<210> 5

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

<400> 5

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<210> 6

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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actccagatg gattttcttg

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<210> 7

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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<210> 8

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

<400> 8

gtcgtaatTT tgTTTctaaa ctc

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

<400> 9

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

<400> 10

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23

<210> 11

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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24

<210> 12

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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<210> 13

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

<400> 13

acttctatct ttttcagaac gag

23

<210> 14

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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6/2 4

atttgaatac tacagtgtta ccc

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<223> Description of Artificial Sequence: a sequence of a primer for  
amplifying APC gene

<400> 15

gtttctcttc attatatttt atgc ta

26

<210> 16

<211> 23

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<223> Description of Artificial Sequence: a sequence of a primer for  
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<400> 16

aagcctacca attatagtga acg

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<210> 17

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<223> Description of Artificial Sequence: a sequence of a primer for  
amplifying APC gene

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<210> 18

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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<210> 19

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying APC gene

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21

<210> 20

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<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying cyclin D1 gene

<400> 20

atgagcaagc tgcccaggga

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<210> 21

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying CAB1 gene

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<210> 22

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying cyclin E1 gene

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<210> 23

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying cyclin E1 gene

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9/2 4

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<210> 24

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<223> Description of Artificial Sequence: a sequence of a primer for  
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<210> 25

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amplifying p16 gene

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<210> 27

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying p16 gene

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<210> 28

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 28

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22

<210> 29

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 29

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22

<210> 30

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 30

ggagagagca gctttcacta ac

22

<210> 31

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 31

ccataccacg acatttgaca gag

23

<210> 32

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 32

taggtgtggt ttctgcatag gg

22

<210> 33

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 33

gtccgcctat cattacatgt ttcc

24

<210> 34

<211> 22

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 34

aacaccactg agaagcgtgc ag

22

<210> 35

<211> 22

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 35

ccatcatgtg agtcatcaga ac

22

<210> 36

<211> 23

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 36

caacataaca gatgggctgg aag

23

<210> 37

<211> 22

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 37

aggcttgccct tcttcggata gg

22

<210> 38

<211> 24

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 38

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24

<211> 22

<212> DNA

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**<220>**

<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

**<400> 39**

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22

<210> 40

&lt;211&gt; 23

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**<220>**

<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 40

ctcgttactg gaagttagca ctc

23

<210> 41

<211> 22

<212> DNA

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**<220>**

<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 41

22

<211> 24

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

24

&lt;211&gt; 22

<213> Artificial Sequence

<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

22

<211> 22

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 44

aggacacgtg tagaacgtgc ag

22

<210> 45

<211> 22

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 45

tcctaattctc gtgatctgcc cg

22

<210> 46

<211> 22

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 46

agcctctgat tctgtcacca gg

22

<210> 47

<211> 23

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 47



cagcatcacc agcttatctg aac

23

<210> 48

<211> 22

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 48

gaactggaat atgccttgag gg

22

<210> 49

<211> 22

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 49

tctcaatggc gcaaattgat cc

22

<210> 50

<211> 22

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 50

BRCA1 gene

ccaaagtgc t aggattacag gg

22

<210> 51

<211> 24

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 51

cctgtgtgaa agtatctagc actg

24

<210> 52

<211> 24

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 52

cagaaatcat cagtggtga acag

24

<210> 53

<211> 22

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 53

BBT "B245555"

22

**<211> 23**

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 54

**gagacagact ctccattga gag**

23

<210> 55

<211> 22

<212> DNA

&lt;213&gt; Artificial Sequence

**<220>**

<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

&lt;400&gt; 55

atgtgggcag agaagacttc tg

22

**<210> 56**

&lt;211&gt; 22

&lt;212&gt; DNA

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**<220>**

<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

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20/24

attgcgccat cacactctag cc

22

<210> 57

<211> 22

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying BRCA1 gene

<400> 57

acccttgcat agccagaagt cc

22

<210> 58

<211> 24

<212> DNA

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<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying TDG gene

<400> 58

agcatggctt tcttcttcct gtgc

24

<210> 59

<211> 24

<212> DNA

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<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying TDG gene

<400> 59

20/24

cagacacaga aactctctgc tatg

24

<210> 60

<211> 22

<212> DNA

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<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying TDG gene

<400> 60

caccatatgc tgctcataa cc

22

<210> 61

<211> 22

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying TDG gene

<400> 61

aacatggtgg aaaggaccac gc

22

<210> 62

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying p53 gene

<400> 62

atcctggcta acggtgaaac cc

22

<210> 63

<211> 24

<212> DNA

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<223> Description of Artificial Sequence: a sequence of a primer for amplifying p53 gene

<400> 63

tgatgagagg tggatgggta gtag

24

<210> 64

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying CD59 gene

<400> 64

tctcacatgg aacgctttc

19

<210> 65

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for amplifying CD59 gene

<400> 65

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21

<211> 20

<212> DNA

<213> Artificial Sequence

**<220>**

<223> Description of Artificial Sequence: a sequence of a primer for amplifying topoisomerase I gene

<400> 66

ggaatttgtc agcgttctac

20

<210> 67

<211> 21

<212> DNA

<213> Artificial Sequence

**<220>**

<223> Description of Artificial Sequence: a sequence of a primer for amplifying topoisomerase I gene

<400> 67

caatgcctgt aaaactaatg a

21

<210> 68

<211> 20

**<212> DNA**

<213> Artificial Sequence

**<220>**

<223> Description of Artificial Sequence: a sequence of a primer for amplifying ATP dependent DNA helicase gene

<400> 68

2 4/2 4

ccctccctgt tcgtgtaccc

20

<210> 69

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: a sequence of a primer for  
amplifying ATP dependent DNA helicase gene

<400> 69

agaccactct tcagcccgta a

21

307271" 02750552